

TABLE 8

Preliminary federal obligations for research and experimental development, by agency and performer: FY 2022

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	189,059	69,232	15,162	50,762	40,458	11,753	937	755
Departments								
Department of Agriculture	3,266	1,925	0	31	1,190	103	12	5
Agricultural Marketing Service	15	8	0	0	5	1	1	*
Agricultural Research Service	1,599	1,441	0	0	143	10	*	5
Animal and Plant Health Inspection Service	45	32	0	0	13	0	0	0
Economic Research Service	90	80	0	*	8	2	0	0
Forest Service	345	318	0	*	16	4	6	*
National Agricultural Statistics Service	11	11	0	0	*	1	0	0
National Institute of Food and Agriculture	1,148	23	0	30	1,004	85	5	0
Natural Resources Conservation Service	13	13	0	0	1	0	*	0
Department of Commerce	2,043	1,433	20	79	483	20	6	1
Census Bureau	149	149	0	0	0	0	0	0
National Institute of Standards and Technology	891	727	19	36	101	7	*	1
National Oceanic and Atmospheric Administration	996	550	1	43	382	13	6	*
National Telecommunications and Information Administration	7	7	0	0	0	0	0	0
Department of Defense	75,473	26,862	3,498	38,392	4,778	1,629	18	295
Defense Advanced Research Projects Agency	3,809	288	108	2,532	675	175	*	31
Defense Health Agency	2,537	601	6	342	823	698	0	67
Department of the Air Force	13,245	4,827	594	6,833	900	64	2	26
Department of the Army	12,934	5,878	158	6,004	594	249	0	51
Department of the Navy	18,669	8,144	192	8,880	1,180	227	6	40
Space Force	4,593	281	234	4,051	20	0	7	0
Other defense agencies	19,686	6,844	2,207	9,750	588	215	3	80
Department of Education	407	0	0	35	198	125	48	0
Department of Energy	13,912	1,249	8,301	2,518	1,762	35	45	1
Advanced Research Projects Agency—Energy	450	0	51	234	153	13	0	0
Electricity Delivery and Energy Reliability	127	3	91	15	9	9	*	0
Energy Efficiency and Renewable Energy	2,062	0	887	639	516	0	21	0
Environmental Management	35	0	29	0	6	0	0	0
Fossil Energy	736	635	46	0	55	0	0	*
National Nuclear Security Administration	4,107	389	2,247	1,451	19	0	0	0
Defense Programs	2,492	327	1,921	240	4	0	0	0
Naval Nuclear Propulsion Program	1,246	56	1	1,190	0	0	0	0
Office of Defense Nuclear Nonproliferation	368	7	325	22	15	0	0	0
Nuclear Energy	479	2	306	116	49	5	0	1

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Office of Cybersecurity, Energy Security, and Emergency Response	120	104	16	0	0	0	0	0
Office of Science	5,795	116	4,628	63	956	8	24	0
Department of Health and Human Services	69,153	32,301	726	3,756	24,549	6,933	571	316
Administration for Children and Families	4	1	0	0	2	2	0	0
Administration for Community Living	111	0	0	3	88	20	*	0
Agency for Healthcare Research and Quality	350	90	0	132	99	30	*	0
Agency for Toxic Substances and Disease Registry	11	0	0	0	7	3	1	*
Biomedical Advanced Research and Development Authority	26,433	25,424	0	967	32	*	9	0
Centers for Disease Control and Prevention	661	102	0	127	249	105	35	43
Centers for Medicare and Medicaid Services	421	0	0	11	2	7	401	0
Food and Drug Administration	669	517	0	14	79	50	3	6
Health Resources and Services Administration	38	5	0	1	32	1	0	0
National Institutes of Health	40,436	6,158	726	2,497	23,957	6,710	121	266
Office of the Secretary of Health and Human Services	18	3	0	5	3	7	0	0
Office of the Assistant Secretary for Planning and Evaluation	18	3	0	5	3	7	0	0
Department of Homeland Security	601	270	70	184	55	12	4	6
Coast Guard	7	0	0	7	0	0	0	0
Countering Weapons of Mass Destruction Office	39	6	2	15	16	0	0	1
Cybersecurity and Infrastructure Security Agency	11	2	0	0	0	9	0	0
Science and Technology Directorate	506	226	68	162	40	2	4	5
Secret Service	2	2	0	0	0	0	0	0
Transportation Security Administration	35	35	0	0	0	0	0	0
Department of the Interior	1,165	999	*	19	107	7	32	1
Bureau of Indian Affairs	4	0	0	0	0	0	4	0
Bureau of Land Management	12	5	*	*	5	2	*	0
Bureau of Ocean Energy Management	84	64	0	8	6	4	2	1
Bureau of Reclamation	42	28	0	5	8	0	1	*
Bureau of Safety and Environmental Enforcement	16	6	*	5	5	*	0	0
Fish and Wildlife Service	33	33	0	0	0	0	0	0
Geological Survey	947	849	0	1	69	2	25	0

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		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
National Park Service	28	14	0	0	14	0	0	0
Department of Justice	88	11	0	11	36	30	1	0
Bureau of Prisons	*	*	0	0	0	0	*	0
Federal Bureau of Investigation	5	0	0	5	0	0	0	0
Office of Justice Programs	83	11	0	5	36	30	1	0
Department of Labor	4	3	0	1	0	0	0	0
Employee Benefits Security Administration	2	1	0	1	0	0	0	0
Occupational Safety and Health Administration	2	2	0	0	0	0	0	0
Department of State	67	67	0	0	0	0	0	0
Department of Transportation	1,096	190	90	414	182	48	169	3
Federal Aviation Administration	516	89	86	247	73	19	0	3
Federal Highway Administration	391	59	*	96	84	10	142	0
Federal Motor Carrier Safety Administration	16	6	2	5	4	*	0	0
Federal Railroad Administration	51	13	2	15	10	11	0	0
Federal Transit Administration	33	0	0	0	1	5	27	0
National Highway Traffic Safety Administration	50	0	0	43	7	*	0	0
Office of the Secretary of Transportation	15	15	0	0	0	*	0	0
Pipeline and Hazardous Materials Safety Administration	24	8	0	10	4	3	0	0
Department of the Treasury	65	3	9	29	0	0	0	24
Bureau of Engraving and Printing	64	3	9	29	0	0	0	24
Mint	1	1	*	0	0	0	0	0
Department of Veterans Affairs	1,831	1,725	107	0	0	0	0	0
Other agencies								
Administrative Office of the U.S. Courts	1	0	1	0	0	0	0	0
Agency for Global Media	8	0	0	8	0	0	0	0
Agency for International Development	82	9	0	15	15	19	0	24
Appalachian Regional Commission	*	0	0	0	*	*	0	0
Consumer Product Safety Commission	*	*	0	0	0	0	0	0
Environmental Protection Agency	525	273	0	195	42	15	0	0
Federal Trade Commission	9	9	0	0	0	0	0	0
Library of Congress	3	3	0	0	0	0	0	0
National Aeronautics and Space Administration	11,404	1,709	2,002	4,447	1,242	1,944	3	56
National Science Foundation	7,036	8	313	536	5,798	339	21	20

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Nuclear Regulatory Commission	82	37	25	7	10	1	0	2
Patient-Centered Outcomes Research Trust Fund	481	0	0	0	0	481	0	0
Postal Service	16	0	0	16	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	7	0	0	0	0	0	7	0
Smithsonian Institution	95	95	0	0	0	0	0	0
Social Security Administration	99	51	0	37	7	3	0	0
Tennessee Valley Authority	41	0	0	33	0	8	0	0

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**

Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Federal agency amounts for the Biomedical Advanced Research and Development Authority are transfers to the other agencies in support of Operation Warp Speed. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.